

HMAS Platypus

Sydney, Australia



Country: Australia
Timescale: 2011-2012
Structure: Submarine Wharf
Client: Defence Department

CPT Treatment used:
DuoGuard™ Hybrid Anode System



The former submarine wharf HMAS Platypus in Neutral Bay was constructed in 1967 and is approximately 14 m wide and 213 m long. During the transformation of the wharf into a public waterfront location areas of the wharf showed signs of concrete cracking and spalling due to reinforcement corrosion.

Problem

A detailed corrosion survey revealed steel corrosion to the deck, service duct and headstocks.

Solution Developed

As part of the renovation works the client requested a corrosion protection system to protect the worst areas from further corrosion related deterioration. 5000 DuoGuard Hybrid anodes were installed on the underside of the deck, on the front and rear faces of the service duct and headstocks.

Benefits

Around 30 embedded reference electrodes and connection enclosures were used to allow for the monitoring of the system performance from the top of the deck.



Ref. Electrode



DuoGuard 500

CPT Products Used:

- ◆ DuoGuard™ 500
- ◆ DuoCrete SD Mortar
- ◆ MN Reference Electrode

Number of Anodes used:

5000

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